

CLAIMS:

1. A vibratory conveyor which comprises:
 - a machine frame;
 - a two-armed lever mounted on the frame for pivotal movement about an axis;
 - 5 a reaction base mounted on one arm of the lever;
 - a conveyor element adapted to convey a product in a direction from a first end thereof toward a second end;
 - 10 at least one leaf spring connected between the conveyor element and the reaction base and arranged to vibrate so as to cause the conveyor element to convey product as aforesaid; and
 - 15 a sensor disposed between the said one arm and the machine frame for sensing the weight of product on the conveyor element;
 - wherein a line connecting the said axis of pivotal movement and the centre of mass of the conveyor element runs perpendicular to the length of the or each leaf spring.
2. A conveyor according to claim 1, wherein a vibration isolation means is provided between the reaction base and the said one arm of the lever.
- 20 3. A conveyor according to claim 2, wherein the said isolation means comprises at least one spring.
4. A conveyor according to claim 1, wherein the reaction base and the said one arm of the lever are provided by a single component.
- 25 5. A conveyor according to any preceding claim, wherein a countermass is mounted on other arm of the two-armed lever to counterbalance the force applied to the first arm when there is no product on the conveyor element.
- 30 6. A conveyor according to claim 5, wherein the position of the countermass is adjustable along the length of said other arm.

7. A conveyor according to any preceding claim, wherein the weight sensor comprises a load cell.

8. A conveyor according to any preceding claim, in combination with 5 means for adding an agent to product on the conveyor element, in dependence on the weight sensed by the weight sensor.

9. A conveyor according to any preceding claim, further comprising at 10 least one additional conveyor element upstream of the first mentioned conveyor element, for transporting product to the latter.

10. A conveyor according to any preceding claim, wherein the sensor receives load from the said one arm via a spring.